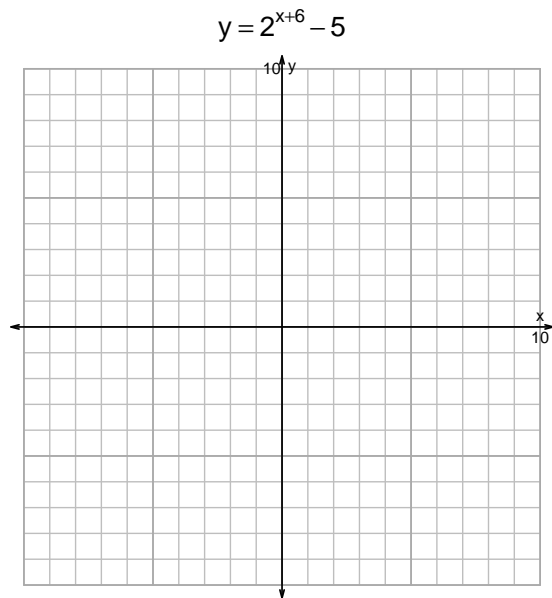
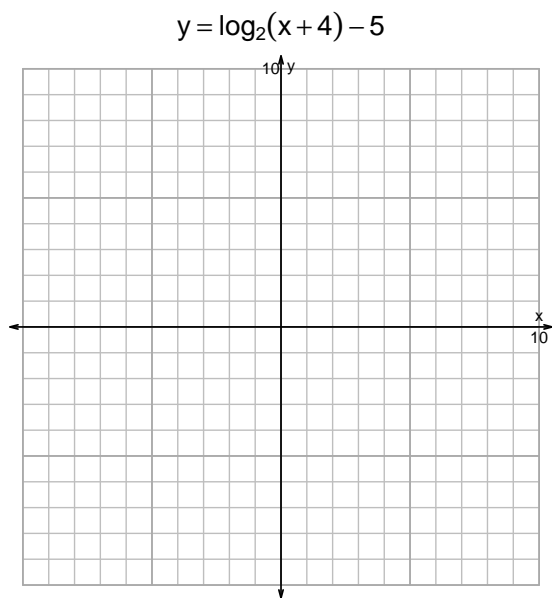


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v211)

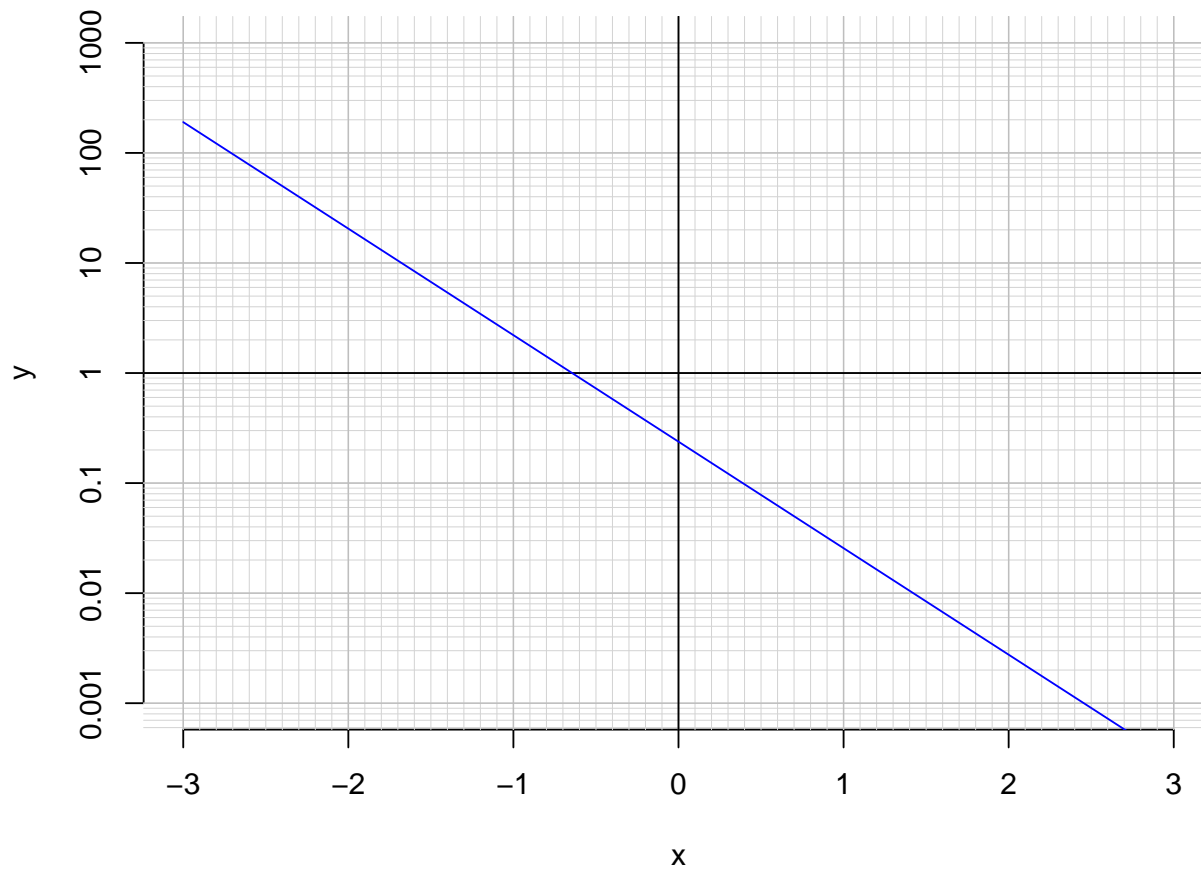
1. Graph $y = \log_2(x + 4) - 5$ and $y = 2^{x+6} - 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-17 = \left(\frac{-4}{3}\right) \cdot 2^{-5t/7}$$

3. An exponential function $f(x) = 0.238 \cdot e^{-2.23x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(0.8)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(50)$.